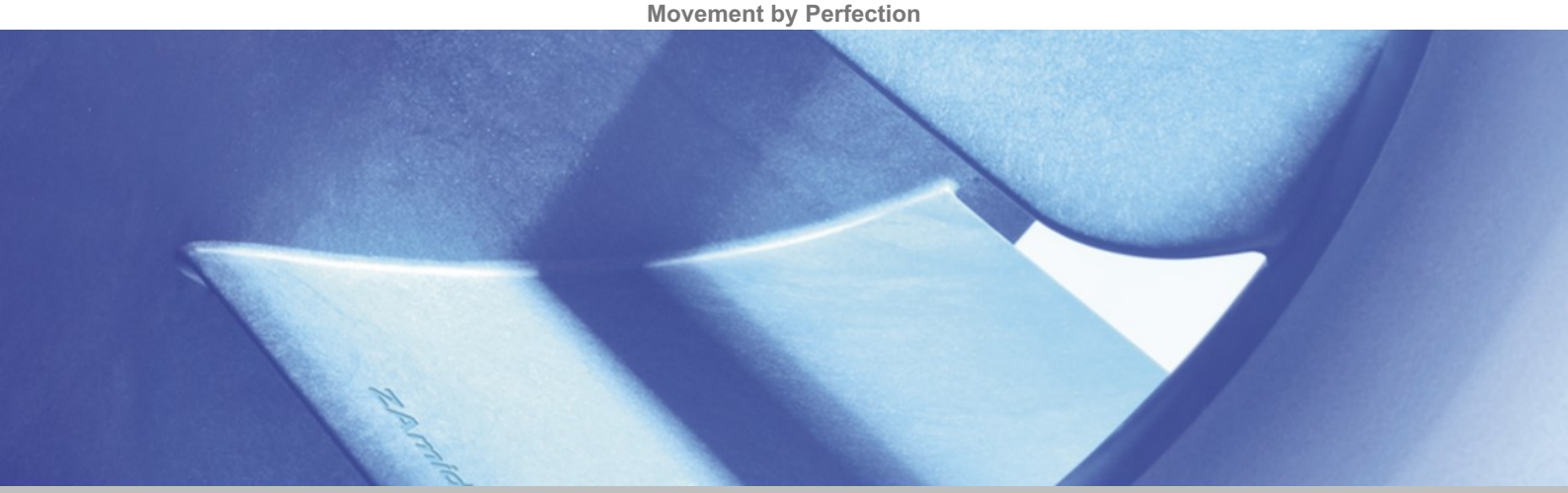
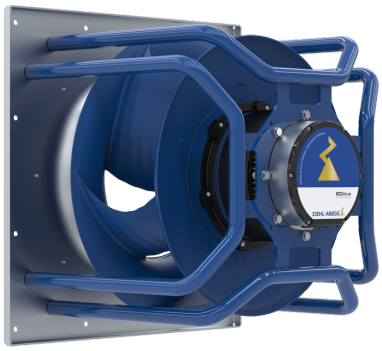
EN

Movement by Perfection



The Royal League in ventilation, control and drive technology

Duty Point Overview



Typ: GR50I-ZID.GG.CR
Article number: 116904/A01

ZIEHL-ABEGG Contact

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This document does not replace the technical product specification. It is intended solely as non-binding guidance regarding the information shown in the table of contents, in particular duty point data, characteristic curves and drawings. It is recommended that the technical product specification be agreed or accepted separately after this document.

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1. Technical Data

Article number	116904/A01
Type key	GR50I-ZID.GG.CR
Designation	Ventilation unit with impeller with backward curved blades.
Fan design	with D flange
Rated values	3~380-480V 50/60Hz P_{ed} 3.50kW 5.60-4.40A 1950min^{-1} 55°C
Electrical connection	Integrated controller
Conformity	ErP2026-Status: Compliant (complete fan)
ErP Data	Measurement category ErP: A Air flow q_v on Eta opt: 9680 m3/h Pressure increase p_{fs} on Eta opt: 917 Pa Input power P_1 on Eta opt: 3529 W Efficiency H_{statA}: 72.9 % Efficiency grade: N_{actual} = 77.6 / N_{target} = 64* *ErP 2026
Thermal class	THCL155
Efficiency class	IE5
IO-function	ECblue BASIC-MODBUS
Type PFC integrated	no PFC
Painting rotor	Rotor 1 coatpaint resistance class 1 (L-TI-0596)
Colour rotor	RAL 5002 (ultramarine blue)
Material rotor	Aluminium
Painting impeller	unpainted
Colour impeller	like RAL 5002 (ultramarine blue)
Material blades/impeller	Impeller made of ZAmid
Inlet nozzle	Inlet nozzle with measuring device for volume flow
Mater. inlet nozzle	Inlet nozzle made of galvanised sheet metal
Connection diagram	Connection diagram: AP00001C
Motor protection	integrated active temperature management
Type of protection	IP55
Impregnation	Moisture and hot climate protection
Quality of bearings	ball bearing with long-time lubrication
Labelling UL/CSA	E213826 ZC-155, MK152-0008
Rating plate	1x fixed.
Condens. drain holes	Condensation drain hole rotor open
Direction o.rotation	clockwise seen at rotor.
Fitting pos./intake direction	Fitting position H/Vu/Vo
Weight	49.00 kg
Min. operating temperature	-20°C

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2. Duty Point Data

GR50I-ZID.GG.CR (116904/A01)		
Design | Fan Size | Motor Brand		GR-E/D | 500 | ZAbluefin ECblue
SFP Class | SFP Value (sfp)	wspm3	| 0
FEI | FEG		0 | 85
Airflow (qv) | Airflow Mains	m³/h	0 | 0
Static Pressure (psf) | Static Pressure Mains	Pa	0 | 0
Dynamic Pressure	Pa	0
Total Pressure pf	Pa	0
Air Velocity	m/s	0.0
Density	kg/m³	1.19
Temperature	°C	20.00
Nominal Rpm (n) | RPM Percentage | max.(nmax)	1/min	0 @ 0.00% | 1950
System Efficiency, stat. (ηsF,sys) | tot. (ηF,sys)	%	0.0 | 0.0
Eta ERP | ERP Year		80.0% | 2026
Frequency	Hz	50
Voltage	V	
Current	A	0
Suction Acoustics (Lw(A),5)|(Lw,5)	dB(A)|dB	0 | 0
Pressure Acoustics (Lw(A),6)|(Lw,6)	dB(A)|dB	0 | 0
Dimensions (Width x Height x Depth)	mm	670 x 670 x 507
Mass	kg	49.0
Kfactor | Kfactor Grille		280 | 265
Guard Grille		no

Selected product is fully compliant with U.S. DOE and CT20 regulations for industrial fans and blowers.

Full Octave band

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000	f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w,5}$	0	0								$L_{w,6}$	0	0							
$L_{w(A),5}$	0	0								$L_{w(A),6}$	0	0							

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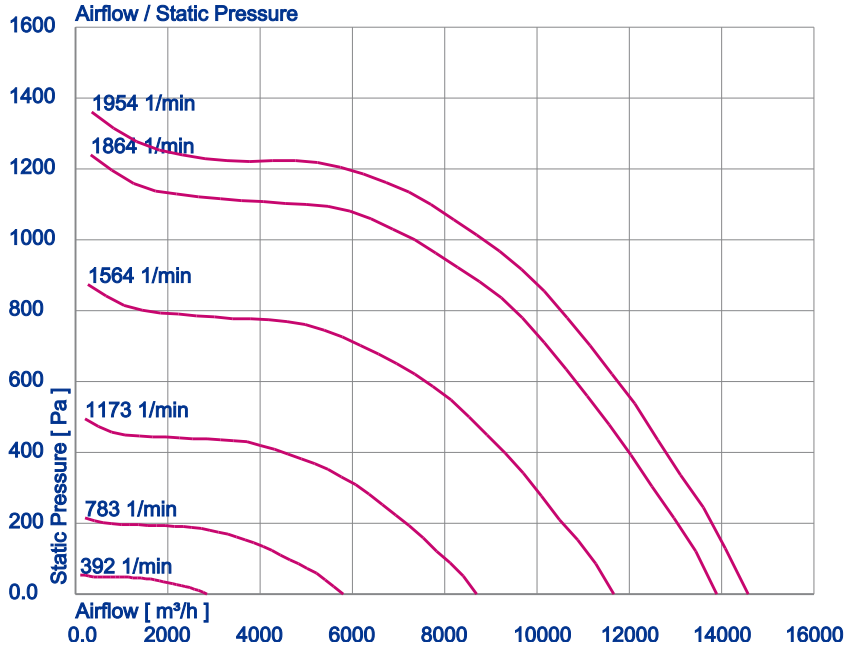
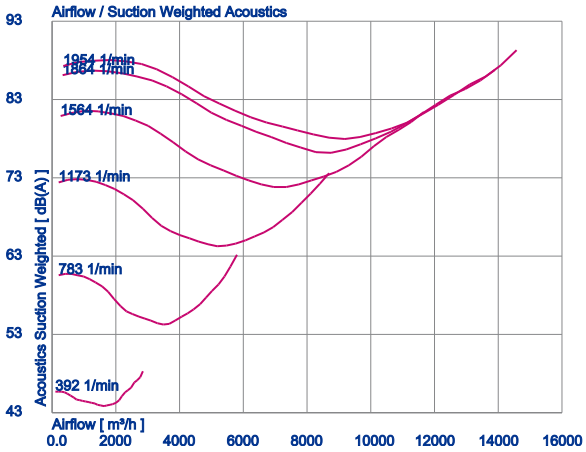
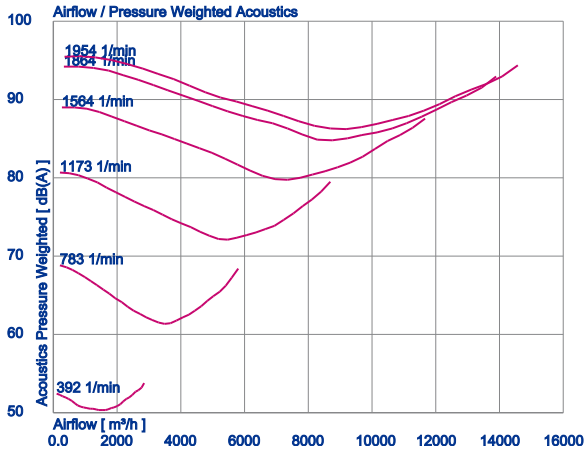
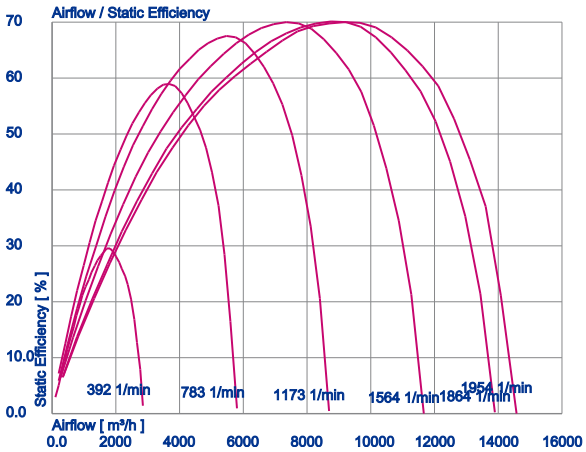
3. Characteristic Curve

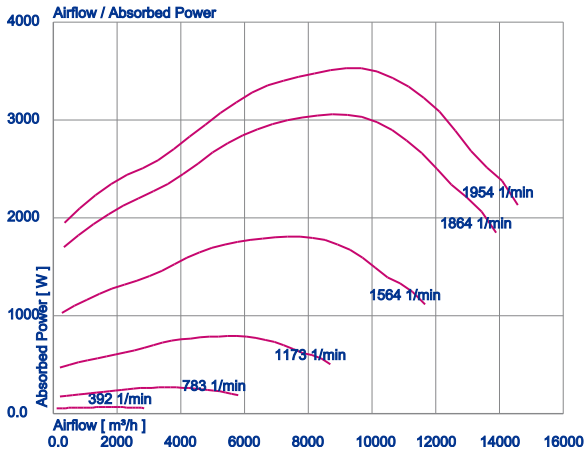
Measured in standard nozzle in installation type A according to ISO 5801











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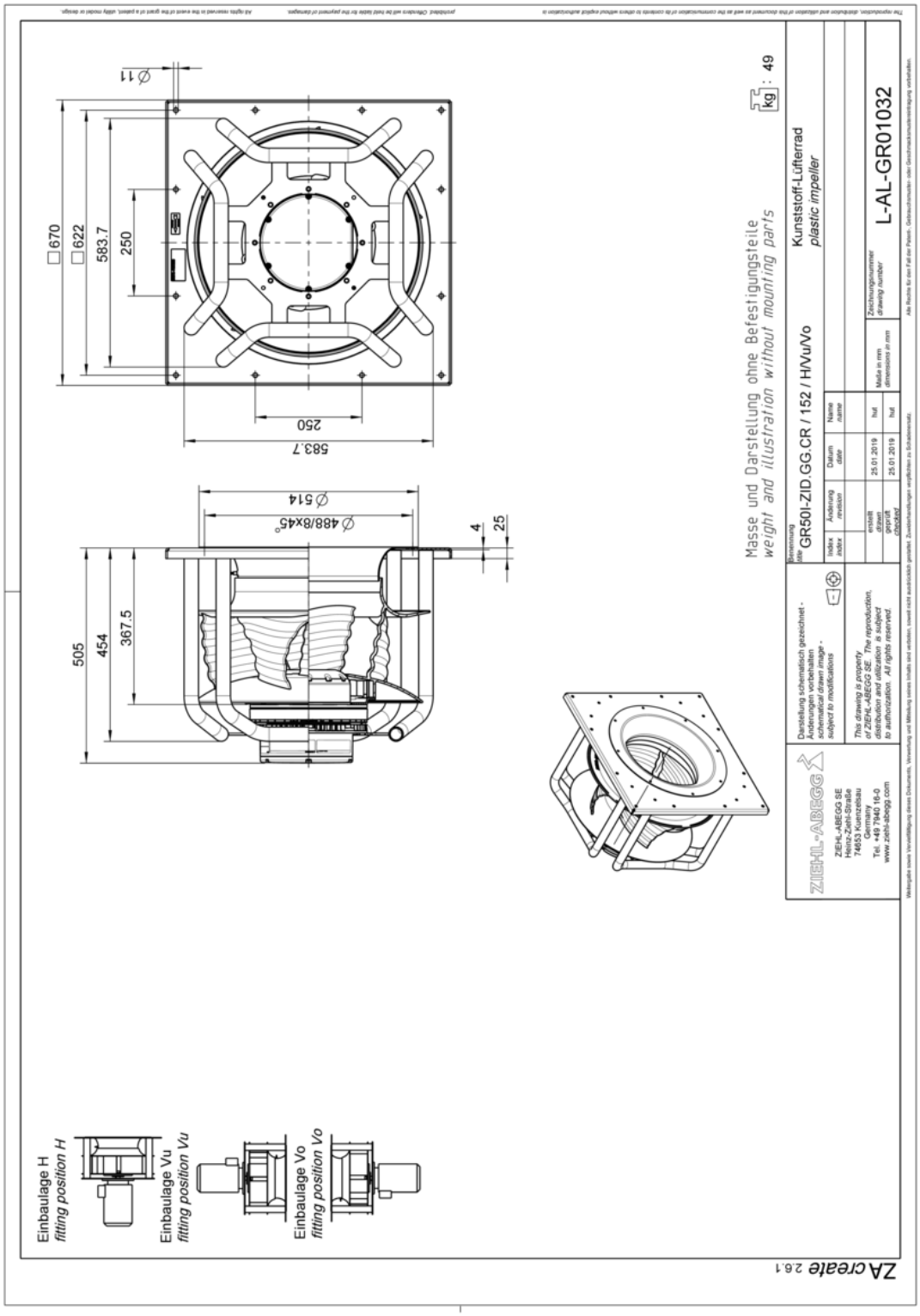
4. Drawing

Article number	**116904/A01**



Dimensions in mm The illustrations shown make no claim to completeness and are for orientation purposes only.

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5. Connection Diagram

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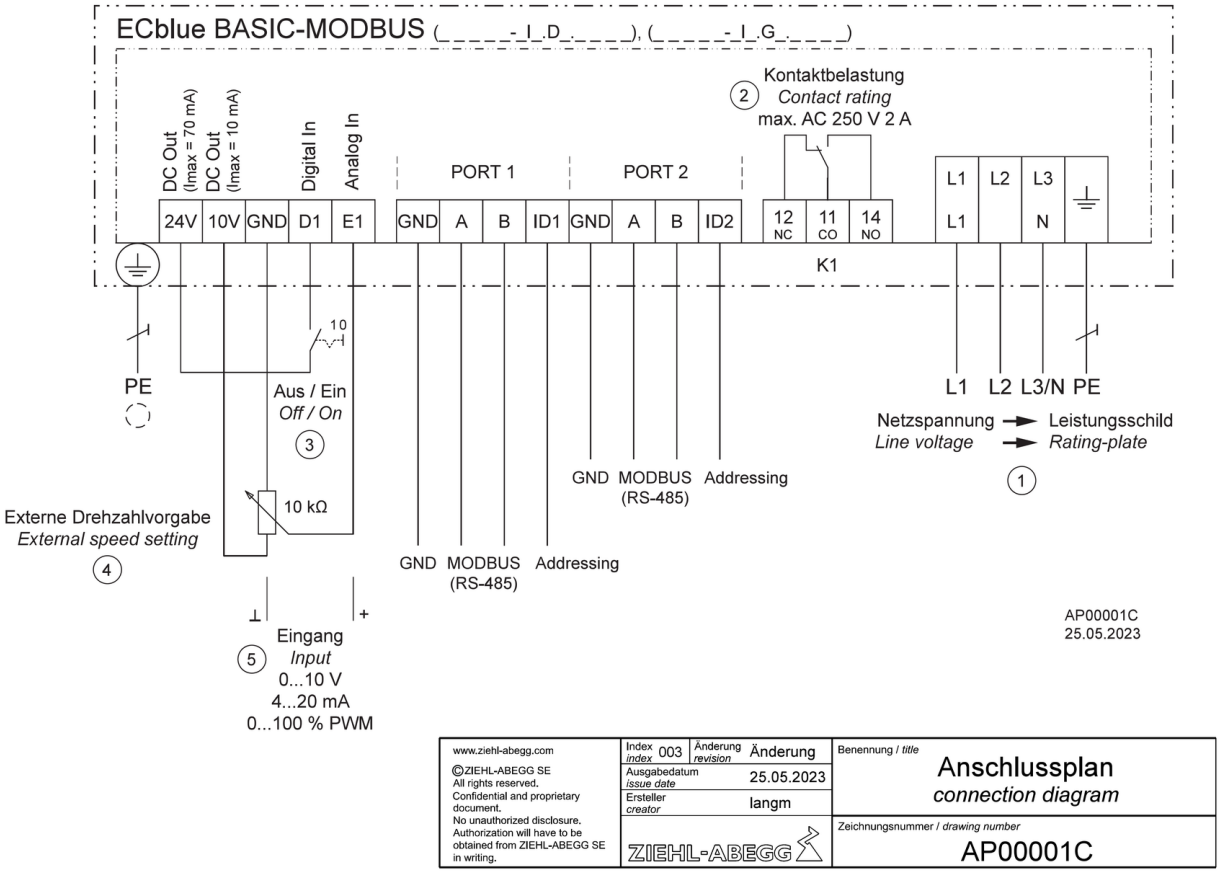

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6. Deviation List

No customer specification was available. Please note that ZIEHL-ABEGG does not confirm technical requirements beyond this specification if they are not listed in a list of deviations.ZIEHL-ABEGG can therefore neither guarantee nor prove the suitability of this product for this specific application or the customer's intended use. The customer is responsible for testing and approving the product for its intended use.

The Royal League in ventilation, control and drive technology

Intelligent control technology for any application

ZIEHL-ABEGG system capabilities:Everything from a single source – perfectly matched for optimal performance

Please contact us. We would be pleased to design an individual solution for your requirements.We would like to welcome you on our worldwide exhibitions. Please find our next exhibitions here.

ZIEHL-ABEGG EVENTS

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